

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	ATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/690,644	/690,644 10/23/2003		Katsuhiko Yoshida	244230US-2S CONT 9147		
22850	7590	09/15/2004		EXAMINER		
OBLON, S		MCCLELLAND, 1	NGUYEN, CHAU N			
	ALEXANDRIA, VA 22314				PAPER NUMBER	
	•			2831		

DATE MAILED: 09/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)					
		10/690,64	14	YOSHIDA ET AL.					
	Office Action Summary	Examine		Art Unit					
		Chau N N		2831	<u> </u>				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠ F	desponsive to communication(s) filed o	on 28 July 2004.							
·	This action is FINAL . 2b) ☐ This action is non-final.								
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition	n of Claims								
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.									
Application	n Papers								
10)⊠ Th A R	ne specification is objected to by the Ene drawing(s) filed on <u>28 July 2004</u> is/a pplicant may not request that any objection eplacement drawing sheet(s) including the oath or declaration is objected to by	are: a)⊠ accepte n to the drawing(s) t e correction is requir	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF					
Priority un	der 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
2) Notice of 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO- tion Disclosure Statement(s) (PTO-1449 or PTO- lo(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte)-152)				

Application/Control Number: 10/690,644 Page 2

Art Unit: 2831

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 9 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 and claim 10, lines 3-5, the recitation of "the adhesive is a condensation polymer of polyvinyl alcohol and aldehyde and is polyvinyl acetal having acetal bonds in molecules thereof" implies "the adhesive is a condensation polymer of polyvinyl alcohol", and "the adhesive is a condensation polymer of aldehyde", and "the adhesive is polyvinyl acetal having acetal bonds in molecules thereof". Accordingly, the material of the adhesive is unclear to which one.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

Art Unit: 2831

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

 Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mori et al. (6,242,825) in view of Igashira et al. (4,471,256).

Mori et al. discloses a coil for an electric rotating machine (Fig. 4) comprising a conductor configured by bundling a plurality of square strands and stacking the square strands like a coil with Roebel transposition, a mica tape (Fig. 5) which is wound a plurality of layers around on an outer surface of the conductor and made up a mica paper (31) and a cloth backing material (32), an insulation layer (30) formed with impregnating and curing resin (col. 7, lines 51-55) between

the wound layers of the mica tape, and inorganic particles (col. 8, lines 1-9) supported with the mica tape.

Mori et al. does not specifically disclose an adhesive containing a glue insoluble in the impregnated resin being used to support the particles with the mica tape (re claims 1, 2, 13, 16). Igashira et al. discloses an invention relating to an electric machine. Igashira et al. discloses a compound includes particles and an adhesive containing a glue which is polyvinyl alcohol (re claims 3, 5, 7-12, 14, 15, 17 and 18). It would have been obvious to one skilled in the art to use the adhesive as taught by Igashira et al. to bond the inorganic particles of Mori et al. to the mica tape.

Mori et al. also discloses the inorganic particles including aluminum nitride (re claim 6), aluminum oxide (re claims 14 and 17), or boron nitride (re claims 15 and 18). Re claims 4, 5, 8, 10 and 12, it would have been obvious to one skilled in the art to choose a suitable amount of polyvinyl-based polymer or polyvinyl alcohol in the adhesive, including 0.5wt% to 5wt%, to meet the specific use of the resulting tape since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable range involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Application/Control Number: 10/690,644 Page 5

Art Unit: 2831

Response to Arguments

Applicant's arguments filed July 28th 2004 have been fully considered but 6. they are not persuasive. Applicant primarily argues that Igashira only discloses uses of an adhesive containing polyvinyl alcohol. Igashira does not disclose or suggest an "adhesive containing glue insoluble in the impregnated resin as a component" as recited in applicant's independent claims. This argument is not found persuasive. Applicant's independent claims 1, 2, 13 and 16 recite an "adhesive containing glue insoluble in the impregnated resin as a component". Claims 7, 14 and 17, in addition to the limitations of in claims 1, 2, 13 and 16 respectively, recite the glue contained in the adhesive being a polyvinyl-based polymer or a polyvinyl-alcohol. Igashira, likewise, discloses an adhesive compound includes particles and an adhesive containing a glue which is polyvinyl alcohol or polyvinyl-based polymer. Accordingly, Igashira does disclose an "adhesive containing glue insoluble in the impregnated resin as a component".

Summary

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2831

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau N Nguyen whose telephone number is 571-272-1980. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/690,644 Page 7

Art Unit: 2831

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chau N Nguyen Primary Examiner Art Unit 2831

Chaulgrup